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Prioritising Public Transport to reach climate neutrality

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UPPER

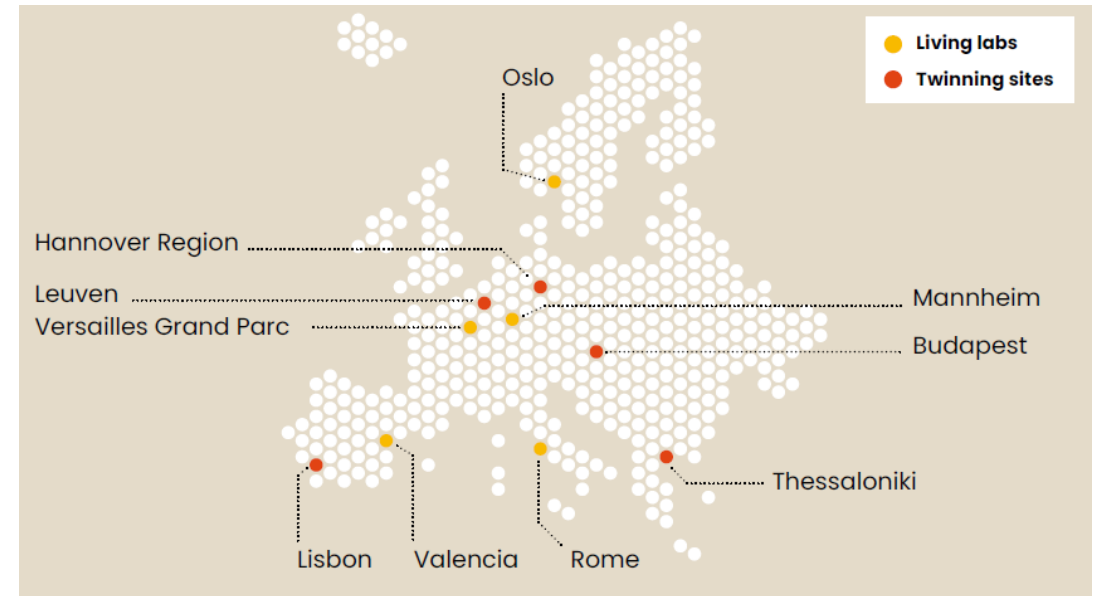**Unleashing the Potential of Public transport in EuRope**

Integrating innovative mobility solutions while maintaining the universality and accessibility of public transport

Consortium of 41 partners helping cities reach their climate targets by prioritizing public transport as the backbone of urban mobility

10 sites across Europe to test 80 innovative measures

Living labs
Twinning sites

Oslo
Hannover Region
Leuven
Versailles Grand Parc
Mannheim
Budapest
Thessaloniki
Lisbon Valencia Rome

Mindset and culture

Urban mobility planning

Mobility services ecosystem

Road network management

Democratic governance

Toolkit of 7 IT Tools helping cities benefit from the experiences of others; implement their measures; better understand and plan mobility services; and transfer their good practice to others.

Contributing to the goals of CIVITAS and EU Mission on cities
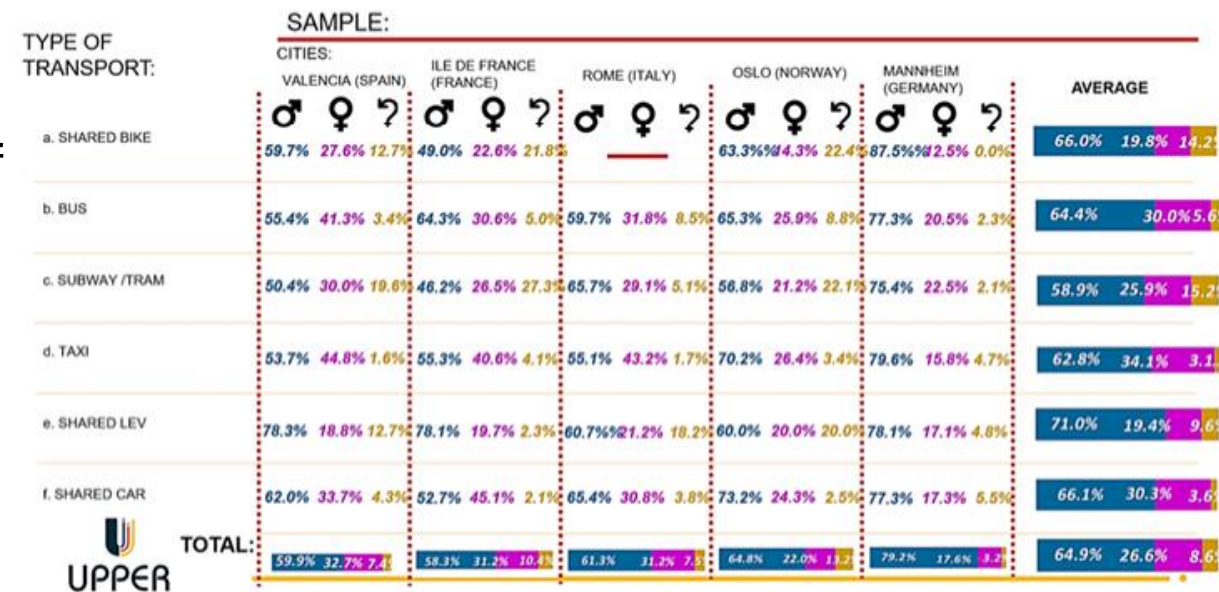Horizon Europe funding GA #101095904

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UPPER

Who? Project partners

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Knowledge – Setting the baseline and current situation

Finalising the UPPER workstream understanding the current situation in the 10 cities: 4 reports

- Mobility needs, motivations and patterns:

  - Netnography study to understand perception of sustainable mobility

  - DELPHI interviews and questionnaires with mobility professionals and user organisations

  - Experience notebooks explaining mobility choices and openness to change

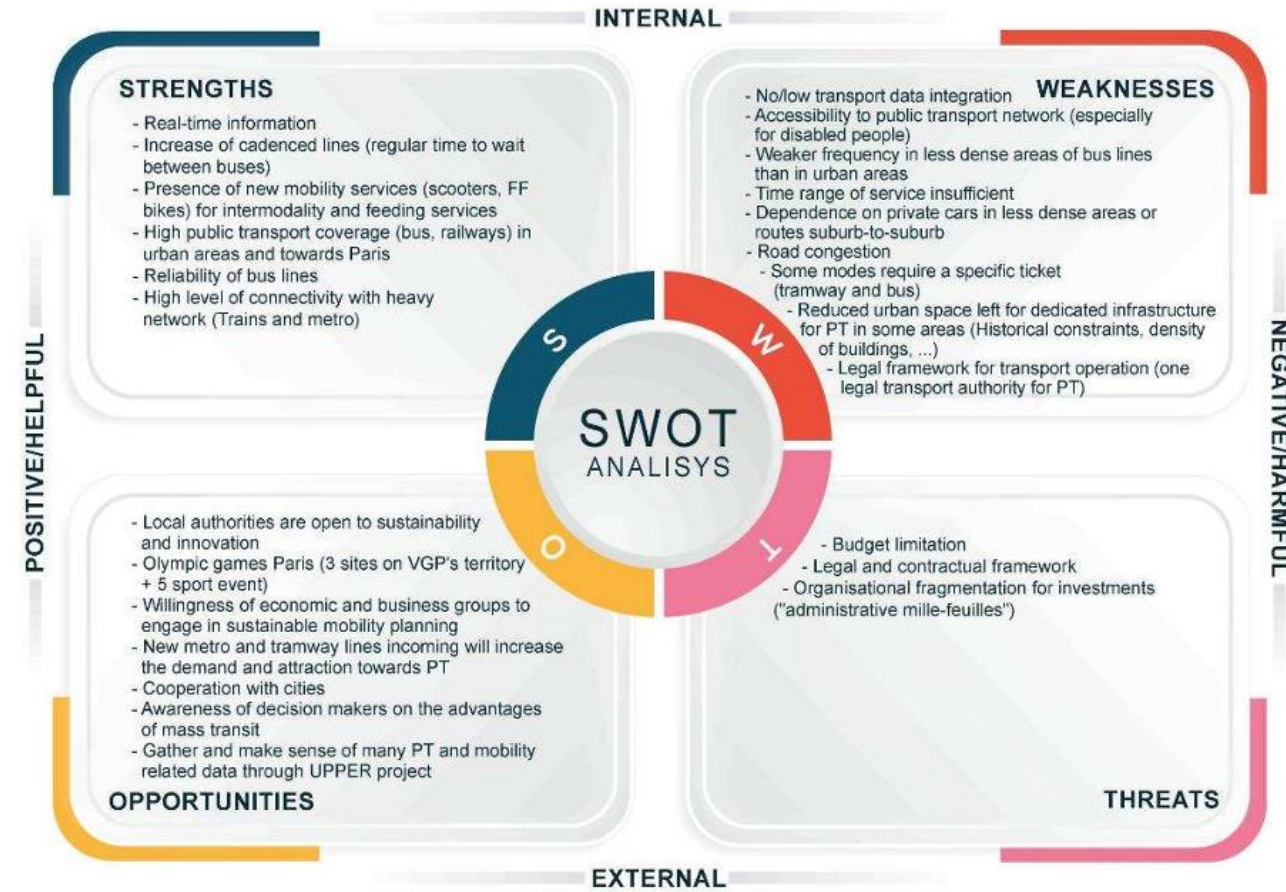| TYPE OF TRANSPORT:	VALENCIA (SPAIN) ♂	♀	?	ILE DE FRANCE (FRANCE) ♂	♀	?	ROME (ITALY) ♂	♀	?	OSLO (NORWAY) ♂	♀	?	MANNHEIM (GERMANY) ♂	♀	?	AVERAGE		
a. SHARED BIKE	59.7%	27.6%	12.7%	49.0%	22.6%	21.8%				63.3%	14.3%	22.4%	87.5%	12.5%	0.0%	66.0%	19.8%	14.2%
b. BUS	55.4%	41.3%	3.4%	64.3%	30.6%	5.0%	59.7%	31.8%	8.5%	65.3%	25.9%	8.8%	77.3%	20.5%	2.3%	64.4%	30.0%	5.6%
c. SUBWAY /TRAM	50.4%	30.0%	19.6%	46.2%	26.5%	27.3%	65.7%	29.1%	5.1%	56.8%	21.2%	22.1%	75.4%	22.5%	2.1%	58.9%	25.9%	15.2%
d. TAXI	53.7%	44.8%	1.6%	55.3%	40.6%	4.1%	55.1%	43.2%	1.7%	70.2%	26.4%	3.4%	79.6%	15.8%	4.7%	62.8%	34.1%	3.1%
e. SHARED LEV	78.3%	18.8%	12.7%	78.1%	19.7%	2.3%	60.7%	21.2%	18.2%	60.0%	20.0%	20.0%	78.1%	17.1%	4.8%	71.0%	19.4%	9.6%
f. SHARED CAR	62.0%	33.7%	4.3%	52.7%	45.1%	2.1%	65.4%	30.8%	3.8%	73.2%	24.3%	2.5%	77.3%	17.3%	5.5%	66.1%	30.3%	3.6%
TOTAL:	59.9%	32.7%	7.2%	58.3%	31.2%	10.4%	61.3%	31.2%	7.5%	64.8%	22.0%	13.2%	79.2%	17.6%	3.2%	64.9%	26.6%	8.6%

Knowledge – Setting the baseline and current situation

Finalising the UPPER workstream understanding the current situation in the 10 cities

- Mobility situation in UPPER sites:

  - Current situation and SWOT analysis of Public transport and sustainable mobility

  - Detailed description of measures to improve for each UPPER site

INTERNAL

STRENGTHS
- Real-time information
- Increase of cadenced lines (regular time to wait between buses)
- Presence of new mobility services (scooters, FF bikes) for intermodality and feeding services
- High public transport coverage (bus, railways) in urban areas and towards Paris
- Reliability of bus lines
- High level of connectivity with heavy network (Trains and metro)

WEAKNESSES
- No/low transport data integration
- Accessibility to public transport network (especially for disabled people)
- Weaker frequency in less dense areas of bus lines than in urban areas
- Time range of service insufficient
- Dependence on private cars in less dense areas or routes suburb-to-suburb
- Road congestion
- Some modes require a specific ticket (tramway and bus)
- Reduced urban space left for dedicated infrastructure for PT in some areas (Historical constraints, density of buildings, ...)
- Legal framework for transport operation (one legal transport authority for PT)

SWOT ANALISYS

OPPORTUNITIES
- Local authorities are open to sustainability and innovation
- Olympic games Paris (3 sites on VGP's territory + 5 sport event)
- Willingness of economic and business groups to engage in sustainable mobility planning
- New metro and tramway lines incoming will increase the demand and attraction towards PT
- Cooperation with cities
- Awareness of decision makers on the advantages of mass transit
- Gather and make sense of many PT and mobility related data through UPPER project

THREATS
- Budget limitation
- Legal and contractual framework
- Organisational fragmentation for investments ("administrative mille-feuilles")

POSITIVE/HELPFUL NEGATIVE/HARMFUL

EXTERNAL

Knowledge – Setting the baseline and current situation

Finalising the UPPER workstream understanding the current situation in the 10 cities
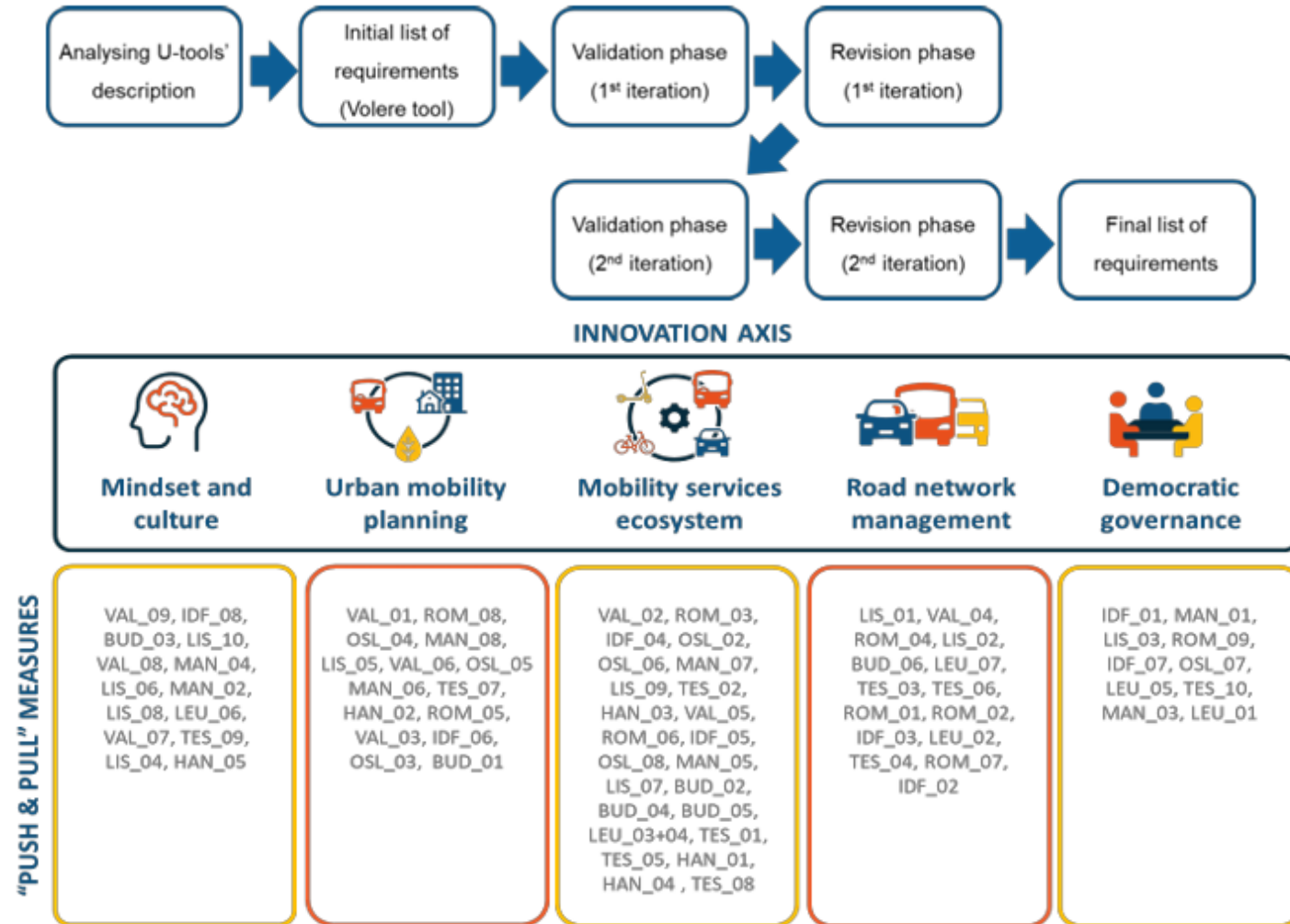
- Serious games for measure refinement

  - In accordance with MaaR, vulnerable and sometime overlooked user groups were invited to solve a series of challenges about the measures proposed

Knowledge – Setting the baseline and current situation

Finalising the UPPER workstream understanding the current situation 10 cities

- Requirements for UPPER tools, measure implementation and supportive policy framework

IT Tools to be developed in the project

- 7 IT tools to help the cities implement their planned measures:

- **First iteration to be tested with cities and measure implementation support: April/May 2024**
  - U-SIM: 2 components, PLAN and LIVE – planning, demand modelling and simulation of transport network interventions – cities: Valencia, Versailles Grand Parc, Mannheim, Thessaloniki, Budapest, Rome, Leuven, Oslo, Hannover, Lisbon

  - U-TWIN: urban digital twin to visualize and monitor PT and mobility – cities: Valencia, Versailles Grand Parc, Lisbon, Rome, Budapest, Thessaloniki, Leuven, Hannover

  - U-NEED: analytics/visualization tool to understand multi-modal transport demand – cities: Rome, Valencia, Versailles Grand Parc, Lisbon, Leuven, Budapest

  - U-SUMP: dashboard to help visualize SUMP indicators, integrating also results from the UPPER measures – cities: Mannheim, Thessaloniki, Rome, Versailles Grand Parc, Lisbon

  - U-GOV: platform to stimulate and facilitate participative decision-making – cities: Valencia, Oslo, Rome, Lisbon, Mannheim, Thessaloniki

  - U-KNOW: knowledge platform to facilitate good practice exchange on PT-related topics – linked to the measure categories

  - U-TRANSFER: self-assessment, webinar series, guidelines facilitating the implementation and adaptation of the UPPER measures to other cities

- https://www.upperprojecteu.eu/upper-toolkit/

UPPER

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CIVITAS 2030
Sustainable and smart mobility for all

EU MISSIONS
CLIMATE-NEUTRAL & SMART CITIES

UPPER contributes to achieving the aims of the CIVITAS Initiative and the goals of the EU Mission: Climate-Neutral and Smart Cities

UPPER
Unleashing the Potential of Public Transport in Europe

Questions?

UPPER contributes to achieving the aims of the CIVITAS Initiative and the goals of the EU Mission: Climate-Neutral and Smart Cities